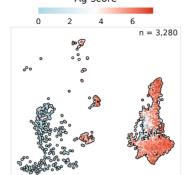
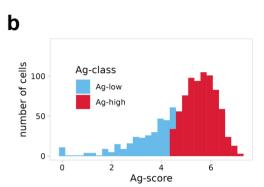
Using machine learning to predict antigen archiving

Question

Can we identify cells that archive antigen for samples that did not receive an Ag-tag?







1. Identify Ag-high cells

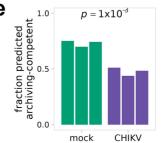
- Inject mouse with Ag-tag
- Harvest draining lymph node
- Perform scRNA-seq

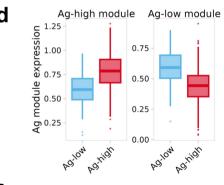
2. Train model

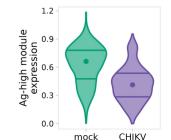
Split cells into training/testing groups



Train random forest Test model classifier







3. Predict archiving-competent cells

- Predict treatments/perturbations that impair archiving
- Design new experiments and verify